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| APPLICATION NO. | | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-------------------------|------|-----------------------------|----------------------|-------------------------|------------------|
| 10/743,777 | | 12/24/2003 | Charng Geng Sheen | MR1957-815 | 9464 |
| 4586 | 7590 | 03/23/2005 | | EXAMINER | |
| | • | LEIN & LEE ENTER DRIVE-S | POTTER, ROY KARL | | |
| ELLICOTT CITY, MD 21043 | | | OIL TO | ART UNIT | PAPER NUMBER |
| | | | | 2822 | |
| | | | | DATE MAILED: 03/23/2005 | |

Please find below and/or attached an Office communication concerning this application or proceeding.

| | | (K) | | | | |
|---|---|--|--|--|--|--|
| | Application No. | Applicant(s) | | | | |
| Office Assistant Community | 10/743,777 | SHEEN, CHARNG GENG | | | | |
| Office Action Summary | Examiner | Art Unit | | | | |
| TI MAII DIA BATTI CILI | Roy K. Potter | 2822 | | | | |
| The MAILING DATE of this communication app Period for Reply | ears on the cover sheet with the c | orrespondence address | | | | |
| A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). | 36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE | nely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133). | | | | |
| Status | | | | | | |
| 1) Responsive to communication(s) filed on | <u>_</u> . | | | | | |
| 2a)☐ This action is FINAL . 2b)☒ This | action is non-final. | | | | | |
| | Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. | | | | | |
| Disposition of Claims | | | | | | |
| 4) Claim(s) 1-4 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) Claim(s) is/are allowed. 6) Claim(s) 1-4 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or | | | | | | |
| Application Papers | | | | | | |
| 9) ☐ The specification is objected to by the Examine 10) ☑ The drawing(s) filed on 24 December 2003 is/a Applicant may not request that any objection to the o Replacement drawing sheet(s) including the correction 11) ☐ The oath or declaration is objected to by the Ex | re: a) \square accepted or b) \square object drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj | e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d). | | | | |
| Priority under 35 U.S.C. § 119 | | | | | | |
| 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list of | s have been received. s have been received in Application ity documents have been receive I (PCT Rule 17.2(a)). | on No ed in this National Stage | | | | |
| Attachment(s) 1) \(\omega \) Notice of References Cited (PTO-892) | 4) 🔲 Interview Summary | (PTO-413) | | | | |
| 2) Notice of Praftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date | Paper No(s)/Mail Da | | | | | |

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DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 3 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 3 recites the limitation "the insulation glue" in line 2. There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1 – 4 are rejected under 35 U.S.C. 102(b) as being anticipated by Wasmer et al..

Wasmer et al., U.S. Patent No. 5,005,069, discloses a semiconductor device. As shown in the embodiment of Figure 4, the device comprises a nail head 72 that has a bonding end and a leading conductor 70. A meal base 62 has a cavity 64 in which a bonding stage 65C is located. Semiconductor chip 66 is installed on the bonding stage 65C with one side connected to the bonding stage and another side connected to the

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nail head 72. Fence 80 forms a well around the bonding stage and the metal housing has an inner sidewall 85 around the well and enclosing the cavity. The fence 80 extends slantingly form the bonding stage 65C toward the inner sidewall. The semiconductor chip is surrounded by the passivant 78, which is constrained by the fence. The cavity is filled with a buffer material 88. The passivant 78 is described as being polyimide or silicone rubber.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Roy K. Potter whose telephone number is 571 272 1842. The examiner can normally be reached on M-F.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Roy K Potter Primary Examiner Art Unit 2822